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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/535,279	03/24/2000	Gang Lu	2762.2001-002	2501
21005	7590 07/21/2004	•	EXAMINER	
HAMILTO:	HAMILTON, BROOK, SMITH & REYNOLDS, P.C.		HARRELL, ROBERT B	
530 VIRGIN P.O. BOX 91			. ART UNIT	PAPER NUMBER
	MA 01742-9133	•	2142	<u> </u>
			DATE MAILED: 07/21/2004	9

Please find below and/or attached an Office communication concerning this application or proceeding.

4.7							
	4	Application No.	Applicant(s)				
		09/535,279	LU ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Robert B. Harrell	2142				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet	vith the correspondence address				
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a represent of the reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a color within the statutory minimum of the will apply and will expire SIX (6) MC te, cause the application to become	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 24 M	<u>March 2000</u> .					
2a) <u></u> ☐	This action is FINAL . 2b) ☐ Thi	s action is non-final.					
3)[Since this application is in condition for allowa	ance except for formal ma	tters, prosecution as to the merits is				
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Dispositi	on of Claims						
4)🖂	Claim(s) 1-85 is/are pending in the application	า.					
	4a) Of the above claim(s) is/are withdra	awn from consideration.					
5)	Claim(s) is/are allowed.						
6)	Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)🖂	Claim(s) <u>1-85</u> are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Examin	er.					
•	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	ction is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
_	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority document	its have been received.					
	2. Certified copies of the priority documen	its have been received in	Application No				
	3. Copies of the certified copies of the price	ority documents have bee	n received in this National Stage				
	application from the International Burea	au (PCT Rule 17.2(a)).					
* S	See the attached detailed Office action for a lis	t of the certified copies no	t received.				
Attachmen	,	,, — , , , ,	C (DTO 140)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date				
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	5) Notice of	Informal Patent Application (PTO-152) e attached Office Action.	,			

Application/Control Number: 09/535,279

Art Unit: 2142

1. Claims 1-85 are presented for consideration.

2. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-40, drawn to:

A method for automatically assigning a network address to a first network node attached to a packet communication network, the method comprising the steps of communicating with at least one other network node to collect information from inter-node communication packets containing network address information other than an address assignment to the first network node, determining an available network address based on the collected network address information contained in the collected inter-node communication packets, and applying the available network address to the first network node; OR stated another way, a method of retrieving a permanent network configuration by a first network node, the method comprising the steps of determining an available local subnet configuration, accessing a second network node located outside the local subnet for a permanent network configuration from a list of permanent network configurations, and assigning the accessed permanent network configuration to the first network node; OR stated another way, a system for automatically assigning a network address, comprising a first network node coupled to a network and having a list of unassigned network configurations, a second network node coupled to the networks the second network device determines an available network address by analyzing plurality network communication packets, via the network, accesses the list in the first network node to retrieve an available network configuration, and assumes the retrieved network configuration; OR stated another way, an apparatus in a network node coupled to a network having one or more network nodes , the apparatus comprising a storage means that stores a processor routine for determining a network configuration, a processor loading the processor routine, the processor being commanded by the processor routine to access the network, determine an available network configuration by analyzing plural network communication packets, and assume the available network configuration; OR stated another way, a processing device for automatically assigning a network configuration to a network node coupled to a network, the processing device computing means for gathering network addresses, and means for determining an available network address to assign to the network device by analyzing plural network communication packets; OR stated another way, an interrogating network node capable of automatically assigning a network configuration, comprising an interface, coupled to a network including at least one other network node a processor operating a processor routine, the processor being coupled to the interface to issue network packets to the interface, and, access responses in the from of plural inter-node communication packets from the other network nodes to determine an available network address to assign to the interrogating network node by analyzing collected network address information contained in the plural collected inter-node communication packets. classified in Class 340, subclass 825.52.

II. Claims 41-62, drawn to:

A method for causing nodes on a network to correct an entry for a node in address tables, the method comprising the steps of using an unused

Application/Contre Number: 09/535,279

Art Unit: 2142

address on the network, preparing a request to the node for which the entry is to be corrected, and forwarding the request to the node to cause a responsive request from the node, the responsive request causing the network nodes to correct the address tables of the network nodes to include an address for the node which is identified in the responsive request from the node; OR stated another way, a network node causing nodes on a network to correct an entry for a node in address tables, comprising an interface coupled to a network including at least one other network node, a processor operating a processor routine, the processor being coupled to the interface to prepare a network packet to send to the node for which the entry is to be corrected, issue network packets to the interface while posing as a node at an unused address on the network, and forward the network packet to the node to cause a responsive request from the node, the responsive request causing the network nodes to correct the address tables of the network nodes to include an address for the node identified in the responsive request from the node; OR stated another way, a computer program product comprising a computer usable medium for storing data a set of computer program instructions embodied on the computer usable medium, including instructions to determine an unused address on a network, prepare a request to a node for which an entry in address tables is to be corrected, and using the unused address, forward the request to the node to cause a responsive request from the node, the responsive request causing the network nodes to correct the address tables of the network nodes to include for the node an address identified in the responsive request from the node; OR stated another way, a processing device for causing nodes on a network to correct an entry for a node in address tables, the processing device comprising means for using an unused address on a network, means for preparing a request to the node for which the entry is to be corrected, and means for forwarding the request to the node to cause a responsive request from the node, the responsive request causing the network nodes to correct the address tables of the network nodes to include for the node an address identified in the responsive request from the node. classified in Class 709, subclass 245.

III. Claims 63-84, drawn to:

A method for automatically determining a subnet mask by a first network node attached to a subnet in a packet communication network, the method comprising the steps of issuing plural communication packets from plural source addresses to at least one address known to be used in the subnet to evoke responses. and based on the presence or absence of responses from the network nodes at the known addresses, determining the subnet mask which represents the subnet; OR stated another way, A network node attached to a subnet capable of automatically determining a subnet mask in a packet communication network, comprising an interface coupled to a subnet including at least one other network node, and a processor operating a processor routine, the processor being coupled to the interface to issue plural communication packets from plural source addresses to at least one address known to be used in the subnet to evoke responses, based on the presence or absence of responses from the network node at the known address, determine the subnet mask which represents the subnet; OR stated another way an apparatus in a network node coupled to a network having one or more network nodes, the apparatus comprising storage means that stores a

Application/Control Number: 09/535,279

Art Unit: 2142

processor routine for determining a network configuration, and a processor loading the processor routine, the processor being commanded by the processor routine to issue plural communication packets from plural source addresses to at least one address known to be used in the subnet to evoke responses, and, based on the presence or absence of responses from the network node at the known address, determine the subnet mask which represents the subnet; OR stated another way, a processing device attached to a subnet in a packet communication network for determining a subnet mask, the processing device comprising means for providing possible subnet masks, means for issuing at least one communication packet to the subnets defined by the respective subnet masks, means for collecting responses from other network nodes on the subnet, and, means for determining whether one of the subnet masks represents the subnet.

classified in Class 370, subclass 254.

- 3. Inventions I and II are related as subcombinations disclosed as useable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately useable. In this instant case, invention I has separate utility such as in an invention containing all of the components of Group I not used in an invention containing all of the components of Group II.
- 4. Inventions I and III are related as subcombinations disclosed as useable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately useable. In this instant case, invention I has separate utility such as in an invention containing all of the components of Group I not used in an invention containing all of the components of Group III.
- 5. Inventions II and I are related as subcombinations disclosed as useable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately useable. In this instant case, invention II has separate utility such as in an invention containing all of the components of Group II not used in an invention containing all of the components of Group I.
- 6. Inventions II and III are related as subcombinations disclosed as useable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately useable. In this instant case, invention II has separate utility such as in an invention containing all of the components of Group II not used in an invention containing all of the components of Group III.
- 7. Inventions III and I are related as subcombinations disclosed as useable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately useable. In this instant case, invention III has separate utility such as in an invention containing all of the components of Group III not used in an invention containing all of the components of Group I.
- 8. Inventions III and II are related as subcombinations disclosed as useable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately useable. In this instant case, invention III has separate utility such as in an

Application/Control Number: 09/535,279

Art Unit: 2142

invention containing all of the components of Group III not used in an invention containing all of the components of Group II.

- 9. Also an undue burden would be placed upon examiner since the search for each individually specific Group would be in a class and subclass not required for the other Groups as they other groups belong in a totally different class and subclass.
- Because these inventions are distinct for the reasons given above and because they have acquired a separate status in the art as shown by their different classification and their recognized divergent subject matter and the search for each Group is not required for the other Group, restriction for examination purposes as indicated is proper.
- Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- The applicant is also advised that the response must be submitted to the Office within 30 calendar days.
- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert B. Harrell whose telephone number is (703) 305-9692. The examiner can normally be reached Monday thru Friday from 5:30 am to 2:00 pm and on weekends from 6:00 am to 12 noon Eastern Standard Time.
- If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack B. Harvey, can be reached on (703) 308-9705. The fax phone numbers for the Group are (703) 746-7238 for After-Final, (703) 746-7239 for Official Papers, and (703) 746-7240 for Non-Official and Draft papers.
- Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-9600.

ROBERT B. HARRELL PRIMARY EXAMINER GROUP 2142